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ABSTRACT

This report presents findings from two institutional-based postsecondary education fall enrollment surveys conducted by the National Center for Education Statistics: the Higher Education General Information Survey, and the Integrated Postsecondary Education Data System (IPEDS) surveys. The report includes eight tables (80 percent of the report) that summarize fall enrollment information. Tables 1 and 2 show enrollment trends for institutions of higher education by racial/ethnic categories and by selected institutional characteristics (by control of institution and by type of institution), biennially for fall 1982 through fall 1990, and 1991. Tables 3 and 4 provide data on total enrollment in institutions of higher education by racial/ethnic category and by selected student characteristics (by sex and by level of study) from biennially, fall 1982 through fall 1990, and 1991. Table 5 shows final fall 1990 enrollment in institutions of higher education, by state and by racial/ethnic category. Table 6 shows final fall 1991 enrollment in institutions of higher education, by state and by racial/ethnic category. Table 7 shows the rates of response to the IPEDS fall 1991 enrollment survey, by state. Finally, table 8 shows the percentage of student enrollment that was imputed for each sector by state (fall 1991). Among the findings it is revealed that: (1) larger numbers of women enroll in higher education than men; (2) undergraduate enrollments in higher education increased from 1982 to 1991 across all racial/ethnic groups; and (3) enrollment by minority groups increased at a higher rate than for white, non-Hispanics. (GLR)

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Trends in Enrollment in Higher Education by Racial/Ethnic Category: Fall 1982 through Fall 1991

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E.D. TABS March 1993

Trends in Enrollment in Higher Education by Racial/Ethnic Category: Fall 1982 through Fall 1991

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March 1993

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Highlights [1]

- Enrollment in higher education institutions increased by nearly 540,000 students between 1990 and 1991—larger than the average net annual change during the period 1982-1991. The net change in enrollment by minority and nonresident alien students exceeded that of white, non-Hispanic students (derived from table 1).

- Enrollment in public institutions of higher education accounted for nearly 79 percent of total enrollment and about 80 percent of enrollment by minority and nonresident alien students in 1991. However, some racial/ethnic groups were particularly likely to attend public rather than private institutions. This was evident for Hispanics and American Indian or Alaskan Natives in that 86 and 88 percent, respectively, attended public institutions. About 66 percent of nonresident aliens attended public institutions in 1991 (derived from table 1).

- Enrollment by minority groups increased at a higher rate than for white, non-Hispanics in both public and private institutions between 1982 and 1991. Minority enrollment increased 43 percent in public institutions and 47 percent in private institutions while enrollment by white, non-Hispanic increased 11 and 7 percent in public and private institutions, respectively (derived from table 1).

- About 76 percent of the net increase in enrollments in institutions of higher education between 1990 and 1991 occurred in 2-year institutions (412,000 of 540,000). As a result, the proportion of total enrollment accounted for by 2-year institutions, 39 percent, is higher than at any other period covered by this report (derived from table 2).

- Larger numbers of women enroll in higher education than men. They accounted for 60 percent of the increase in total enrollments between 1990 and 1991. All racial/ethnic categories contributed to these gains by women. The percentage of the increase for females was highest for black, non-Hispanics, white, non-Hispanics and Hispanics (64, 62, and 56 percent, respectively (derived from table 3).

- Undergraduate enrollments in higher education increased from 1982 to 1991 across all racial/ethnic groups. The numeric gains among undergraduate minority students continued to be proportionately higher than for white, non-Hispanic undergraduates. Between 1990 and 1991, there was a 3 percent increase in enrollment by white, non-Hispanics, compared to increases of 12 percent for Asian or Pacific Islanders, 11 percent for American Indian or Alaskan Natives, and Hispanics, and 7 percent for black, non-Hispanic, and nonresident aliens (derived from table 4).

- Graduate enrollments increased by 33 percent between 1982 and 1991 and by approximately 3 percent between 1990 and 1991. Between 1990 and 1991, graduate enrollment by minorities and nonresident aliens increased approximately 7 percent and approximately 2 percent by white, non-Hispanics (derived from table 4).

- First-professional enrollments have not changed dramatically over time, although in 1991 the number enrolled—281,000—is the largest in the nine years between 1982 and 1991. The decline in enrollment by white, non-Hispanic first-professional students (from 246,000 to 224,000 between 1982 and 1991) has been offset primarily by increased enrollments of Asian or Pacific Islanders (derived from table 4).

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[1] Numbers reported in the tables are rounded. Percentages reported in the highlights were calculated prior to rounding.

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Introduction

This E.D. TABS presents findings from two institutional-based postsecondary education fall enrollment surveys conducted by the National Center for Education Statistics: the Higher Education General Information Survey (HEGIS), and the Integrated Postsecondary Education Data System (IPEDS) surveys which replaced HEGIS in 1986. HEGIS contains biennial enrollment data from 1976 to 1984 by racial/ethnic category. Since 1990, the data have been reported annually, reflecting a change in the reporting cycle. The IPEDS data reported here pertain only to the HEGIS institutions.

This E.D. TABS includes eight tables that summarize the fall enrollment information. Tables 1 and 2 show enrollment trends for institutions of higher education by racial/ethnic categories and by selected institutional characteristics. Tables 3 and 4 provide data on total enrollment in institutions of higher education by racial/ethnic category and by selected student characteristics from 1982 to 1991. Table 5 shows final fall 1990 enrollment in institutions of higher education, by state and by racial/ethnic category. Table 6 shows final fall 1991 enrollment in institutions of higher education, by state and by racial/ethnic category. Table 7 shows the rates of response to the IPEDS fall enrollment survey, by state. Table 8 shows the percentage of student enrollment that was imputed for each sector by state.

Caution should be used in interpreting the data for 2-year institutions of higher education by state due to the high proportion of imputed data in the 2-year sector. This results from the high rate of nonresponse for some states in this sector. See the technical notes for a more detailed discussion of this issue and tables 7 and 8 for detail.

Table 1.--Total enrollment in institutions of higher education, by control of institution and race/ethnicity: Biennially, fall 1982 through fall 1990, and 1991

Control of institution and race/ethnicity	Number, in thousands						Percent distribution					
	1982	1984	1986	1988	1990	1991	1982	1984	1986	1988	1990	1991
Total	12,388	12,235	12,504	13,043	13,820	14,359	100.0	100.0	100.0	100.0	100.0	100.0
White, non-Hispanic	9,997	9,815	9,921	10,283	10,723	10,990	80.7	80.2	79.3	78.8	77.6	76.5
Black, non-Hispanic	1,101	1,076	1,082	1,130	1,247	1,335	8.9	8.8	8.7	8.7	9.0	9.3
Hispanic	519	535	618	680	783	867	4.2	4.4	4.9	5.2	5.7	6.0
Asian or Pacific Islander	351	390	448	497	573	637	2.8	3.2	3.6	3.8	4.1	4.4
American Indian or Alaskan Native	88	84	90	93	103	114	0.7	0.7	0.7	0.7	0.7	0.8
Nonresident alien	331	335	345	361	391	416	2.7	2.7	2.8	2.8	2.8	2.9
Public												
Total	9,695	9,458	9,714	10,156	10,845	11,310	78.3	77.3	77.7	77.9	78.5	78.8
White, non-Hispanic	7,785	7,543	7,654	7,964	8,385	8,622	62.8	61.6	61.2	61.1	60.7	60.0
Black, non-Hispanic	873	844	854	881	976	1,053	7.0	6.9	6.8	6.8	7.1	7.3
Hispanic	446	456	532	587	671	742	3.6	3.7	4.3	4.5	4.9	5.2
Asian or Pacific Islander	296	323	371	406	461	516	2.4	2.6	3.0	3.1	3.3	3.6
American Indian or Alaskan Native	77	72	79	81	90	100	0.6	0.6	0.6	0.6	0.7	0.7
Nonresident alien	219	219	224	238	260	275	1.8	1.8	1.8	1.8	1.9	1.9
Private												
Total	2,693	2,777	2,790	2,887	2,975	3,049	21.7	22.7	22.3	22.1	21.5	21.2
White, non-Hispanic	2,212	2,272	2,267	2,319	2,338	2,368	17.9	18.6	18.1	17.8	16.9	16.5
Black, non-Hispanic	228	232	228	248	271	282	1.8	1.9	1.8	1.9	2.0	2.0
Hispanic	74	79	86	93	111	125	0.6	0.6	0.7	0.7	0.8	0.9
Asian or Pacific Islander	55	67	77	91	112	121	0.4	0.5	0.6	0.7	0.8	0.8
American Indian or Alaskan Native	10	11	11	11	12	14	0.1	0.1	0.1	0.1	0.1	0.1
Nonresident alien	113	116	120	123	131	141	0.9	0.9	1.0	0.9	1.0	1.0

Note: Because of underreporting/nonreporting of racial/ethnic data, data prior to 1986 were estimated, when possible. See the Technical Notes for a discussion of imputation procedures used for underreported and nonreported racial/ethnic data since 1984. Also, 1990 data may differ slightly from prior publications due to corrections and the addition of late data. Due to rounding, detail may not add to totals.

Source: U.S. Department of Education, National Center for Education Statistics, Higher Education General Information Survey "Fall Enrollment in Colleges and Universities" (1982 and 1984) and Integrated Postsecondary Education Data System "Fall Enrollment" surveys (1986, 1988, 1990, and 1991).

Table 2.--Total enrollment in institutions of higher education, by type of institution and race/ethnicity: Biennially, fall 1982 through fall 1990, and 1991

Level of institution and race/ethnicity	Numbers in thousands						Percentage distribution of total enrollment					
	1982	1984	1986	1988	1990	1991	1982	1984	1986	1988	1990	1991
All institutions	12,388	12,235	12,504	13,043	13,820	14,359	100.0	100.0	100.0	100.0	100.0	100.0
White, non-Hispanic	9,997	9,815	9,921	10,283	10,723	10,990	80.7	80.2	79.3	78.8	77.6	76.5
Black, non-Hispanic	1,101	1,076	1,082	1,130	1,247	1,335	8.9	8.8	8.7	8.7	9.0	9.3
Hispanic	519	535	618	680	783	867	4.2	4.4	4.9	5.2	5.7	6.0
Asian or Pacific Islander	351	390	448	497	573	637	2.8	3.2	3.6	3.8	4.1	4.4
American Indian or Alaskan Native	88	84	90	93	103	114	0.7	0.7	0.7	0.7	0.7	0.8
Nonresident alien	331	335	345	361	391	416	2.7	2.7	2.8	2.8	2.8	2.9
4-year institutions	7,648	7,707	7,824	8,175	8,579	8,707	61.7	63.0	62.6	62.7	62.1	60.6
White, non-Hispanic	6,306	6,301	6,337	6,582	6,769	6,791	50.9	51.5	50.7	50.5	49.0	47.3
Black, non-Hispanic	612	617	615	656	723	758	4.9	5.0	4.9	5.0	5.2	5.3
Hispanic	229	246	278	296	358	383	1.8	2.0	2.2	2.3	2.6	2.7
Asian or Pacific Islander	193	223	262	297	357	381	1.6	1.8	2.1	2.3	2.6	2.7
American Indian or Alaskan Native	39	38	40	42	48	51	0.3	0.3	0.3	0.3	0.3	0.4
Nonresident alien	270	282	292	302	324	343	2.2	2.3	2.3	2.3	2.3	2.4
2-year institutions *	4,740	4,528	4,680	4,868	5,240	5,652	38.3	37.0	37.4	37.3	37.9	39.4
White, non-Hispanic	3,692	3,514	3,584	3,702	3,954	4,199	29.8	28.7	28.7	28.4	28.6	29.2
Black, non-Hispanic	489	459	467	473	524	578	3.9	3.7	3.7	3.6	3.8	4.0
Hispanic	291	289	340	384	424	484	2.3	2.4	2.7	2.9	3.1	3.4
Asian or Pacific Islander	158	167	186	199	215	256	1.3	1.4	1.5	1.5	1.6	1.8
American Indian or Alaskan Native	49	46	51	50	55	63	0.4	0.4	0.4	0.4	0.4	0.4
Nonresident alien	61	53	53	60	67	74	0.5	0.4	0.4	0.5	0.5	0.5

* The reader should be cautious in interpreting the data shown for 2-year institutions of higher education due to the high proportion of imputed data in the 2-year sector. See technical appendix for a further discussion of this issue.

Note: Because of underreporting/nonreporting of racial/ethnic data, data prior to 1986 were estimated, when possible. See the Technical Notes for a discussion of imputation procedures used for underreported and nonreported racial/ethnic data since 1984. Also, 1990 data may differ slightly from prior publications due to corrections and the addition of late data. Due to rounding, detail may not add to totals.

Source: U.S. Department of Education, National Center for Education Statistics, Higher Education General Information Survey "Fall Enrollment in Colleges and Universities" (1982 and 1984) and Integrated Postsecondary Education Data System "Fall Enrollment" surveys (1986, 1988, 1990, and 1991).

Table 3.--Total enrollment in institutions of higher education, by sex and race/ethnicity: Biennially, fall 1982 through fall 1990, and 1991

Race/ethnicity and sex	Number, in thousands						Percent distribution					
	1982	1984	1986	1988	1990	1991	1982	1984	1986	1988	1990	1991
All students												
Total	12,388	12,235	12,504	13,043	13,820	14,359	100.0	100.0	100.0	100.0	100.0	100.0
White, non-Hispanic	9,997	9,815	9,921	10,283	10,723	10,990	80.7	80.2	79.3	78.8	77.6	76.5
Black, non-Hispanic	1,101	1,076	1,082	1,130	1,247	1,335	8.9	8.8	8.7	8.7	9.0	9.3
Hispanic	519	535	618	680	783	867	4.2	4.4	4.9	5.2	5.7	6.0
Asian or Pacific Islander	351	390	448	497	573	637	2.8	3.2	3.6	3.8	4.1	4.4
American Indian or Alaskan Native	88	84	90	93	103	114	0.7	0.7	0.7	0.7	0.7	0.8
Nonresident alien	331	336	345	361	391	416	2.7	2.7	2.8	2.8	2.8	2.9
Men												
Total	5,999	5,859	5,885	5,998	6,284	6,502	48.4	47.9	47.1	46.0	45.5	45.3
White, non-Hispanic	4,830	4,690	4,647	4,712	4,861	4,962	39.0	38.3	37.2	36.1	35.2	34.6
Black, non-Hispanic	458	437	436	443	485	517	3.7	3.6	3.5	3.4	3.5	3.6
Hispanic	252	254	290	310	354	391	2.0	2.1	2.3	2.4	2.6	2.7
Asian or Pacific Islander	189	210	239	259	295	325	1.5	1.7	1.9	2.0	2.1	2.3
American Indian or Alaskan Native	40	38	39	39	43	48	0.3	0.3	0.3	0.3	0.3	0.3
Nonresident alien	230	231	233	235	246	259	1.9	1.9	1.9	1.8	1.8	1.8
Women												
Total	6,389	6,376	6,619	7,045	7,535	7,857	51.6	52.1	52.9	54.0	54.5	54.7
White, non-Hispanic	5,167	5,125	5,273	5,572	5,862	6,028	41.7	41.9	42.2	42.7	42.4	42.0
Black, non-Hispanic	644	639	646	687	762	818	5.2	5.2	5.2	5.3	5.5	5.7
Hispanic	267	281	328	370	429	476	2.2	2.3	2.6	2.8	3.1	3.3
Asian or Pacific Islander	162	180	209	237	278	312	1.3	1.5	1.7	1.8	2.0	2.2
American Indian or Alaskan Native	48	46	51	53	60	66	0.4	0.4	0.4	0.4	0.4	0.5
Nonresident alien	101	104	112	126	145	157	0.8	0.9	0.9	1.0	1.1	1.1

Note: Because of underreporting/nonreporting of racial/ethnic data, data prior to 1986 were estimated, when possible. See the Technical Notes for a discussion of imputation procedures used for underreported and nonreported racial/ethnic data since 1984. Also, 1990 data may differ slightly form prior publications due to corrections and the addition of late data. Due to rounding, detail may not add to totals.

Source: U.S. Department of Education, National Center for Education Statistics, Higher Education General Information Survey "Fall Enrollment in Colleges and Universities" (1982 and 1984) and Integrated Postsecondary Education Data System "Fall Enrollment" surveys (1986, 1988, 1990, and 1991).

Table 4.--Total enrollment in institutions of higher education, by level of study and race/ethnicity: Biennially, fall 1982 through fall 1990, and 1991

Level of study and race/ethnicity	Number in thousands						Percent distribution by level of study					
	1982	1984	1986	1988	1990	1991	1982	1984	1986	1988	1990	1991
Undergraduate enrollment												
Total	10,875	10,610	10,798	11,304	11,959	12,439	100.0	100.0	100.0	100.0	100.0	100.0
White, non-Hispanic	8,749	8,484	8,558	8,907	9,273	9,508	80.5	80.0	79.3	78.8	77.5	76.4
Black, non-Hispanic	1,028	995	996	1,039	1,147	1,229	9.4	9.4	9.2	9.2	9.6	9.9
Hispanic	485	495	563	631	725	804	4.5	4.7	5.2	5.6	6.1	6.5
Asian or Pacific Islander	313	343	393	437	501	559	2.9	3.2	3.6	3.9	4.2	4.5
American Indian or Alaskan Native	82	78	83	86	95	106	0.8	0.7	0.8	0.8	0.8	0.9
Nonresident alien	220	216	205	205	219	234	2.0	2.0	1.9	1.8	1.8	1.9
Graduate enrollment												
Total	1,235	1,344	1,435	1,472	1,586	1,639	100.0	100.0	100.0	100.0	100.0	100.0
White, non-Hispanic	1,002	1,087	1,133	1,153	1,228	1,258	81.1	80.9	78.9	78.4	77.4	76.7
Black, non-Hispanic	61	67	72	76	84	89	4.9	5.0	5.0	5.2	5.3	5.4
Hispanic	27	32	46	39	47	51	2.2	2.4	3.2	2.7	3.0	3.1
Asian or Pacific Islander	30	37	43	46	53	58	2.5	2.8	3.0	3.1	3.4	3.5
American Indian or Alaskan Native	5	5	5	6	6	7	0.4	0.4	0.4	0.4	0.4	0.4
Nonresident alien	108	115	136	151	167	177	8.8	8.6	9.5	10.3	10.5	10.8
First-professional enrollment												
Total	278	278	270	267	274	281	100.0	100.0	100.0	100.0	100.0	100.0
White, non-Hispanic	246	243	231	223	222	224	88.5	87.4	85.3	83.6	81.0	79.8
Black, non-Hispanic	13	13	14	14	16	17	4.7	4.8	5.2	5.4	5.8	6.1
Hispanic	7	8	9	9	11	11	2.5	2.9	3.4	3.5	4.0	4.1
Asian or Pacific Islander	8	9	11	14	19	21	2.9	3.4	4.2	5.4	6.9	7.4
American Indian or Alaskan Native	1	1	1	1	1	1	0.4	0.4	0.4	0.4	0.4	0.5
Nonresident alien	3	3	4	5	5	6	1.1	1.2	1.5	1.8	2.0	2.0

Note: Because of underreporting/nonreporting of racial/ethnic data, data prior to 1986 were estimated, when possible. See the Technical Notes for a discussion of imputation procedures used for underreported and nonreported racial/ethnic data since 1984. Also, 1990 data may differ slightly from prior publications due to corrections and the addition of late data. Due to rounding, detail may not add to totals.

Source: U.S. Department of Education, National Center for Education Statistics, Higher Education General Information Survey "Fall Enrollment in Colleges and Universities" (1982 and 1984) and Integrated Postsecondary Education Data System "Fall Enrollment" surveys (1986, 1988, 1990, and 1991).

Table 5.—Fall enrollment in institutions of higher education, by state and race/ethnicity: Fall 1990

State	Total	White, non-Hispanic	Black, non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Nonresident Alien
Total	13,819,522	10,723,000	1,247,112	782,597	572,528	102,786	391,499
Alabama	248,156	191,774	48,348	1,138	1,711	593	4,592
Alaska	29,833	24,264	1,079	634	740	2,648	468
Arizona	264,148	204,881	7,604	29,829	6,106	8,833	6,895
Arkansas	90,425	75,157	12,188	431	740	438	1,471
California	1,810,538	1,142,843	118,402	233,527	227,372	21,301	67,093
Colorado	231,542	194,942	6,942	17,316	5,417	2,315	4,610
Connecticut	169,554	144,332	9,955	5,651	4,364	432	4,820
Delaware	42,004	35,155	4,710	546	710	99	784
District of Columbia	80,156	40,968	24,421	2,405	3,237	266	8,859
Florida	588,923	431,551	61,068	66,012	12,157	1,943	16,192
Georgia	251,786	189,163	49,204	2,740	4,241	548	5,890
Hawaii	56,436	16,695	1,532	1,065	32,920	205	4,019
Idaho	51,881	48,024	310	1,004	706	485	1,352
Illinois	729,246	541,347	89,218	48,932	32,353	2,245	15,151
Indiana	284,832	252,092	15,766	4,540	4,026	805	7,603
Iowa	170,515	155,204	4,044	1,587	2,430	441	6,809
Kansas	163,836	143,378	6,842	3,553	2,717	1,972	5,374
Kentucky	177,852	162,549	10,491	738	1,343	506	2,225
Louisiana	186,840	130,341	44,848	3,477	2,670	858	4,646
Maine	57,186	55,487	296	195	418	398	392
Maryland	264,862	195,079	44,582	5,026	11,694	852	7,629
Massachusetts	417,834	348,201	18,473	12,619	16,289	1,198	21,054
Michigan	569,803	475,505	56,786	9,094	10,693	3,547	14,178
Minnesota	253,789	235,231	4,143	1,936	4,948	2,002	5,529
Mississippi	122,883	85,699	33,699	395	783	377	1,930
Missouri	289,899	251,010	23,159	3,442	4,589	1,135	6,564
Montana	35,876	32,200	114	280	120	2,427	735
Nebraska	112,831	104,620	2,723	1,559	1,178	729	2,022
Nevada	61,728	50,910	2,931	3,408	2,559	1,043	877
New Hampshire	59,511	56,523	669	490	760	229	840
New Jersey	324,286	241,950	33,130	21,671	14,447	772	12,316
New Mexico	85,500	52,511	2,171	23,604	1,115	4,597	1,502
New York	1,053,511	756,580	122,064	80,163	51,040	3,148	40,516
North Carolina	352,138	274,009	62,043	2,529	5,621	3,084	4,852
North Dakota	37,878	34,380	246	195	285	1,616	1,156
Ohio	558,607	482,784	47,079	5,632	7,539	1,533	14,040
Oklahoma	173,221	140,865	11,816	2,635	2,904	9,609	5,392
Oregon	165,741	144,221	2,251	3,125	6,712	1,776	7,656
Pennsylvania	604,060	523,157	44,009	7,709	13,588	1,011	14,586
Rhode Island	78,273	69,974	2,558	1,606	1,891	222	2,022
South Carolina	159,302	122,964	31,177	911	1,494	334	2,422
South Dakota	34,208	31,106	250	94	198	1,912	648
Tennessee	226,238	186,541	31,240	1,302	2,283	476	4,396
Texas	901,437	617,626	80,458	148,296	27,907	3,006	24,144
Utah	121,303	110,150	661	2,233	2,243	1,322	4,694
Vermont	36,398	34,178	375	428	569	131	717
Virginia	353,442	280,786	49,566	4,803	11,400	860	6,027
Washington	263,384	225,250	7,360	6,135	15,438	3,874	5,327
West Virginia	84,790	78,795	3,160	360	688	139	1,648
Wisconsin	299,774	271,096	10,667	4,692	4,991	2,050	6,278
Wyoming	31,326	28,952	284	905	184	444	557

Note: 1990 data may differ slightly from prior publications due to corrections and the addition of late data.

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, "Fall Enrollment" survey, 1990.

Table 6.--Fall enrollment in institutions of higher education, by state and race/ethnicity: Fall 1991

State	Total	White, non-Hispanic	Black, non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Nonresident Alien
Total 1/	14,358,953	10,989,776	1,335,388	866,572	637,151	113,713	416,353
Alabama	258,625	197,156	52,287	1,362	1,921	892	5,007
Alaska	30,793	24,956	1,123	660	756	2,771	527
Arizona	272,971	210,204	8,410	31,931	6,606	8,806	7,014
Arkansas	94,340	77,709	13,152	590	813	547	1,529
California 2/	--	--	--	--	--	--	--
Colorado	239,623	199,195	7,466	19,279	6,188	2,539	4,956
Connecticut	166,748	140,503	10,168	5,979	4,563	392	5,143
Delaware	42,988	35,548	5,035	713	839	102	751
District of Columbia	77,964	39,717	23,475	2,414	3,233	180	8,945
Florida	611,781	441,926	67,165	70,657	13,752	2,215	16,066
Georgia	277,023	203,397	57,998	3,485	5,161	652	6,330
Hawaii	57,302	16,290	1,478	1,060	33,684	189	4,601
Idaho	55,397	51,019	345	1,168	771	579	1,515
Illinois	753,297	553,422	93,662	51,886	35,250	2,309	16,768
Indiana	290,301	255,894	16,431	4,874	4,310	881	7,911
Iowa	171,024	154,169	4,259	1,891	2,691	442	7,572
Kansas	167,805	145,933	7,320	3,861	2,825	2,214	5,652
Kentucky	187,958	170,793	11,550	948	1,500	573	2,594
Lousiana	197,438	136,011	48,067	3,995	3,250	991	5,124
Maine	57,178	55,033	393	263	494	422	573
Maryland	272,995	197,127	48,481	5,472	12,793	943	8,179
Massachusetts	419,381	344,484	19,325	13,668	18,532	1,496	21,876
Michigan	568,491	473,042	55,462	9,344	11,660	3,703	15,280
Minnesota	255,054	234,036	4,874	2,310	5,759	2,098	5,977
Mississippi	125,350	86,272	35,173	447	799	397	2,262
Missouri	297,154	254,377	24,825	3,688	4,904	1,166	8,194
Montana	37,821	33,403	141	319	171	2,836	951
Nebraska	113,648	104,688	2,926	1,678	1,310	768	2,278
Nevada	62,664	51,078	3,205	3,818	2,920	930	713
New Hampshire	63,718	59,625	953	814	873	248	1,205
New Jersey	334,641	245,879	35,425	23,742	15,916	814	12,865
New Mexico	93,507	56,307	2,577	26,359	1,336	5,264	1,664
New York	1,061,753	756,135	126,192	84,063	53,639	3,436	38,288
North Carolina	371,968	287,178	67,419	3,190	5,241	3,244	5,696
North Dakota	38,739	34,582	275	222	251	1,910	1,499
Ohio	570,207	490,777	48,370	6,304	8,334	1,657	14,765
Oklahoma	183,536	146,890	12,771	3,062	3,238	11,163	6,412
Oregon	167,107	144,527	2,626	4,073	7,478	1,949	6,454
Pennsylvania	620,036	531,004	44,252	11,758	16,042	1,201	15,779
Rhode Island	79,112	69,268	2,778	1,986	2,037	257	2,786
South Carolina	164,907	126,354	32,516	1,184	1,690	345	2,818
South Dakota	36,332	33,032	290	118	239	1,979	674
Tennessee	238,042	194,412	34,684	1,593	2,642	576	4,135
Texas	917,443	617,056	84,503	155,534	30,704	3,470	26,176
Utah	130,419	118,230	710	2,682	2,267	1,319	5,211
Vermont	37,436	35,226	400	400	554	113	743
Virginia	356,325	278,071	52,056	5,521	13,069	958	6,650
Washington	274,760	230,722	9,050	7,553	17,512	4,346	5,577
West Virginia	88,602	82,390	3,159	387	770	179	1,717
Wisconsin	308,986	277,472	11,806	5,259	5,416	2,257	6,776
Wyoming	32,118	29,579	263	974	186	460	656

1/ Includes estimates for nonresponding institutions.

2/ Because of the low response rate, data are not shown for California.

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, "Fall Enrollment" survey, 1991.

Table 7.--Response rates of IPEDS "Fall Enrollment" survey, by state and control of institution: Fall 1991

State	Total	4-year Public	4-year Private	2-year Public	2-year Private
Total	90.9	97.1	92.5	87.9	83.5
Alabama	98.8	100.0	94.4	100.0	100.0
Alaska	100.0	100.0	100.0	N/A	100.0
Arizona	94.9	100.0	93.3	100.0	66.7
Arkansas	91.4	100.0	100.0	90.0	60.0
California	50.6	71.9	81.1	1.9	59.3
Colorado	93.3	100.0	90.5	100.0	80.0
Connecticut	97.8	100.0	94.7	100.0	100.0
Delaware	100.0	100.0	100.0	100.0	N/A
District of Columbia	100.0	100.0	100.0	N/A	N/A
Florida	86.4	100.0	87.8	100.0	50.0
Georgia	98.1	95.0	100.0	100.0	92.9
Hawaii	100.0	100.0	100.0	100.0	N/A
Idaho	100.0	100.0	100.0	100.0	100.0
Illinois	97.6	100.0	97.8	97.9	94.4
Indiana	97.5	100.0	95.0	100.0	100.0
Iowa	100.0	100.0	100.0	100.0	100.0
Kansas	96.2	88.9	95.2	100.0	100.0
Kentucky	91.8	100.0	96.2	100.0	69.2
Lousiana	97.1	100.0	91.7	100.0	100.0
Maine	96.7	100.0	100.0	100.0	80.0
Maryland	98.3	93.3	100.0	100.0	100.0
Massachusetts	92.2	78.6	95.8	88.2	92.3
Michigan	99.0	100.0	100.0	96.6	100.0
Minnesota	97.5	100.0	97.1	100.0	88.9
Mississippi	95.7	100.0	91.7	95.0	100.0
Missouri	89.2	100.0	87.0	100.0	75.0
Montana	94.7	100.0	100.0	100.0	66.7
Nebraska	100.0	100.0	100.0	100.0	100.0
Nevada	77.8	100.0	100.0	100.0	--
New Hampshire	96.6	100.0	92.3	100.0	100.0
New Jersey	98.3	100.0	95.5	100.0	100.0
New Mexico	86.2	100.0	66.7	93.8	--
New York	85.4	97.7	78.8	97.8	87.5
North Carolina	99.2	100.0	100.0	100.0	88.9
North Dakota	100.0	100.0	100.0	100.0	100.0
Ohio	94.2	100.0	95.5	100.0	77.8
Oklahoma	87.0	100.0	83.3	86.7	60.0
Oregon	100.0	100.0	100.0	100.0	100.0
Pennsylvania	94.4	100.0	98.0	95.0	82.4
Rhode Island	100.0	100.0	100.0	100.0	N/A
South Carolina	93.3	100.0	86.4	100.0	80.0
South Dakota	84.2	85.7	100.0	--	--
Tennessee	100.0	100.0	100.0	100.0	100.0
Texas	97.1	100.0	93.0	100.0	91.7
Utah	100.0	100.0	100.0	100.0	100.0
Vermont	95.5	100.0	92.9	100.0	100.0
Virginia	100.0	100.0	100.0	100.0	100.0
Washington	98.3	100.0	100.0	100.0	80.0
West Virginia	100.0	100.0	100.0	100.0	100.0
Wisconsin	95.2	100.0	92.9	94.1	100.0
Wyoming	100.0	100.0	N/A	100.0	100.0

-- One or two institutions were in this sector. All data were imputed and included in total.
N/A indicates that there are no representative institutions in this sector.

Note: In the fall of 1991, the response rate was 90.9 for institutions of higher education, while in the fall of 1990, the response rate for institutions of higher education was 86.8 percent. Imputed enrollment data (for nonresponding institutions and cases with incomplete data) accounted for, on average, less than 3.5 percent of the higher education data for 4-year institutions and, substantially higher proportion (24.3) of the data for 2-year institutions. For a detailed discussion regarding this issue, see cautionary notes at the end of the Technical Notes.

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data Syste "Fall Enrollment" survey, 1991.

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Table 8.—Percentage of IPEDS enrollment data that was imputed, by state and control of institution: Fall 1991

State	Total	4-year Public	4-year Private	2-year Public	2-year Private
Total	11.6	3.2	3.8	24.4	21.3
Alabama	0.0	0.0	0.2	0.0	28.1
Alaska	0.0	0.0	0.0	N/A	0.0
Arizona	2.9	0.0	39.1	0.0	0.0
Arkansas	3.2	0.0	0.0	8.2	71.4
California	73.2	31.4	22.4	99.4	29.9
Colorado	0.8	0.0	4.7	0.0	15.0
Connecticut	0.0	0.0	0.1	0.0	0.0
Delaware	0.0	0.0	0.0	0.0	N/A
District of Columbia	0.0	0.0	0.0	N/A	N/A
Florida	1.3	0.0	4.4	0.0	48.3
Georgia	1.1	1.9	0.0	0.0	2.9
Hawaii	0.0	0.0	0.0	0.0	N/A
Idaho	0.0	0.0	0.0	0.0	0.0
Illinois	1.0	0.0	3.8	0.2	1.0
Indiana	0.3	0.0	1.4	0.0	0.0
Iowa	0.0	0.0	0.0	0.0	0.0
Kansas	0.3	0.1	2.4	0.0	0.0
Kentucky	2.1	0.0	8.4	0.0	30.8
Lousiana	0.1	0.0	0.5	0.0	0.0
Maine	0.6	0.0	0.0	0.0	22.4
Maryland	0.3	0.7	0.0	0.0	0.0
Massachusetts	6.7	12.9	1.7	14.1	0.1
Michigan	0.4	0.0	0.0	1.0	0.0
Minnesota	1.4	0.0	5.8	0.0	12.8
Mississippi	2.5	0.0	14.4	3.0	0.0
Missouri	1.7	0.0	4.9	0.0	22.2
Montana	0.7	0.0	0.0	0.0	21.6
Nebraska	0.0	0.0	0.0	0.0	0.0
Nevada	0.6	0.0	0.0	0.0	--
New Hampshire	1.5	0.0	3.6	0.0	0.0
New Jersey	0.0	0.0	0.0	0.0	0.0
New Mexico	6.5	0.0	67.9	8.4	--
New York	1.8	0.3	2.3	1.9	10.8
North Carolina	0.1	0.0	0.0	0.0	7.2
North Dakota	0.0	0.0	0.0	0.0	0.0
Ohio	0.8	0.0	2.3	0.0	9.3
Oklahoma	4.9	0.0	21.2	5.6	31.9
Oregon	0.0	0.0	0.0	0.0	0.0
Pennsylvania	8.0	0.0	0.1	18.2	59.3
Rhode Island	0.0	0.0	0.0	0.0	N/A
South Carolina	1.7	0.0	6.9	0.0	40.7
South Dakota	3.3	2.7	0.0	--	--
Tennessee	0.0	0.0	0.0	0.0	0.0
Texas	0.3	0.0	1.8	0.0	12.4
Utah	0.0	0.0	0.0	0.0	0.0
Vermont	1.4	0.0	3.4	0.0	0.0
Virginia	0.0	0.0	0.0	0.0	0.0
Washington	0.2	0.0	0.0	0.0	23.0
West Virginia	0.0	0.0	0.0	0.0	0.0
Wisconsin	0.9	0.0	2.3	1.3	0.0
Wyoming	0.0	0.0	N/A	0.0	0.0

-- One or two institutions were in this sector. All data were imputed and included in total.
N/A indicates that there are no representative institutions in this sector.

Note: In the fall of 1991, the response rate was 90.9 for institutions of higher education, while in the fall of 1990, the response rate for institutions of higher education was 86.8 percent. Imputed enrollment data (for nonresponding institutions and cases with incomplete data) accounted for, on average, less than 3.5 percent of the higher education data for 4-year institutions and, substantially higher proportion (24.3) of the data for 2-year institutions. For a detailed discussion regarding this issue, see cautionary notes at the end of the Technical Notes.

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, "Fall Enrollment" survey, 1991.

Technical Notes

Data Sources

The enrollment statistics in this bulletin by racial/ethnic category are derived from two data sources. The information for 1982 through 1984 comes from data reported biennially by institutions of higher education in the Higher Education General Information Survey (HEGIS), "Fall Enrollment and Compliance Report of Institutions of Higher Education." The data for 1986 through 1991 are from information reported by institutions of higher education through the Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" survey. The IPEDS data were reported biennially between 1986 and 1990, and annually since 1990.

Note that data reported for 1990 in this E.D. TABS differ somewhat from those reported in other sources. Modifications have been made to the 1990 data with the addition of late arriving data as well as corrections and updates forwarded by institutions.

Data for this E.D. TABS are exclusively from the HEGIS institutions. Therefore, all data are based on the full universe of accredited higher education institutions. Data from noncollegiate institutions (which were sampled) are not included.

Imputations [2]

Although the HEGIS and IPEDS data reported here are historically comparable in terms of the reporting institutions (i.e., those accredited at the college level by agencies recognized by the Secretary, U.S. Department of Education), there are some differences in the imputation procedures used in the two surveys.

In the case of totally nonresponding institutions (i.e., those that did not return an enrollment survey form), HEGIS data were imputed whenever possible by using previously reported information. In a few cases, imputations could not be performed; thus, enrollment by racial/ethnic category was slightly less than total enrollment reported by the institutions. However, this was not a major problem because totals by racial/ethnic category were always within 0.3 percent of the actual totals. In IPEDS, a procedure similar to that used for the prior HEGIS surveys was followed, except that "hot-deck" imputations (computer matching with a similar institution of higher education) were performed when previously reported data were unavailable.

For responding institutions with incomplete or missing data for racial/ethnic categories, the imputation procedures were as follows:

- The difference between the sum of the data across the racial/ethnic categories and the reported totals was redistributed in proportion to the institution's reported racial/ethnic enrollment.
- For IPEDS institutions that did not report students by racial/ethnic categories, data were imputed by using the same proportions reported for each racial/ethnic category at the state level for a given type and control of institution. Prior to 1986 (i.e., HEGIS survey years), data were not imputed for these institutions across racial/ethnic categories.

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[2]In the fall of 1991, the response rate was 90.9 for institutions of higher education, while in the fall of 1990 the rate was 86.8 percent (table 7). Imputed enrollment data (for nonresponding institutions and those with incomplete data) accounted for 3.2 percent of the data for 4-year public institutions, and 24.4 percent for 2-year public institutiopns. Theproportion of imputed data in 4-year and 2-year private institutions differed little from their public counterparts. For a discussion regarding this issue, see cautionary notes at the end of the Technical Notes.

- Data reported in the "race/ethnicity unknown" category were distributed back in proportion to the reported data in the manner described above; however, "race/ethnicity unknown" data were not distributed to the "non-resident alien" category.

Race/Ethnicity Unknown

Beginning in 1990, the category "race/ethnicity unknown" was incorporated into the fall enrollment survey. To allow for analysis of enrollment trends by race/ethnicity, the race/ethnicity unknown data were distributed across all racial/ethnic categories in proportion to the reported data (see description of distribution process under the imputation procedures discussed above). As a result of the distribution process, enrollment counts increased proportionately for all racial/ethnic categories.

Cautionary Notes

Table 4 contains data by level of study (undergraduate, graduate, and first-professional). The reader is cautioned that the level of study data presented here may differ from data in other NCES publications. HEGIS data, which appear in publications prior to 1986, contained information on unclassified students, by level (undergraduate and graduate).

The reader should be cautious when interpreting data displayed by type and control of institution because approximately 24.4 percent of the data for 2-year public institutions were imputed. In particular, an analysis of the data for 2-year public institutions shows that in California virtually all of the data were imputed for this type of institution. This large percentage of imputed data affects the quality of the data in the 2-year public sector at the national level. However, the reader should also note that, if California is excluded, the percentage of enrollment data that was imputed was only 1.3 percent. The reader should refer to table 8 which reports the percentage of enrollment data imputed, by type and by control of institution for each state.

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